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Ne000264 US/371

PTO/SB/81 (02-01)

Approved for use through 10/31/2002, OMB 0651-0035

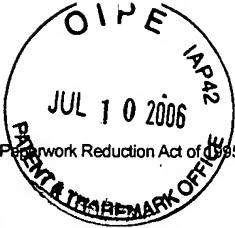
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| POWER OF ATTORNEY OR AUTHORIZATION OF AGENT | Int'l. Application Number | PCT/US04/08593 |
| | Int'l. Filing Date | March 18, 2004 |
| | U.S. Application Number | 10/549,520 |
| | Filing Date | September 19, 2005 |
| | First Named Inventor | DeFrees, Shawn |
| | Title | ACTIVATED FORMS OF WATER-SOLUBLE POLYMERS |
| | Group Art Unit | To be assigned |
| | Examiner Name | To be assigned |
| | Attorney Docket Number | 40853-01-5127-US |

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| I hereby appoint: | | | | | | | |
| Practitioners at Customer Number OR Practitioner(s) named below: | <input type="text" value="43850"/> → <i>Place Customer Number Bar Code Label here</i> | | | | | | |
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| as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. | | | | | | | |
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| I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. <i>Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).</i> | | | | | | | |
| SIGNATURE of Applicant or Assignee of Record | | | | | | | |
| Name | Debra Poul, Esq., Senior Vice President, General Counsel and Secretary, Neose Technologies, Inc. | | | | | | |
| Signature | | | | | | | |
| Date | 05/11/2006 | | | | | | |
| NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*. | | | | | | | |
| *Total of 1 forms are submitted. | | | | | | | |

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PTO/SB/96 (08-00)

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Attorney Docket No. 040853-01-5127-US
Client Ref. No.: NEO00264US/371**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Shawn DeFreees, et. al.Application No./Patent No.: 10/549,520 Filed/Issue Date: September 19, 2005Entitled: ACTIVATED FORMS OF WATER-SOLUBLE POLYMERSNeose Technologies, Inc. a Delaware corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or
2. an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel ___, Frame ___, or for which a copy thereof is attached.

OR

- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

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Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE] A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

05/11/2006

Date

Debra J. Poul, Esq.

Typed or printed name

Senior Vice President, General Counsel and
Secretary

Title

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Attorney Docket No.:040853-01-5127-US
Client Reference No.: NEO00264US/371

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Shawn DeFrees of 126 Filly Drive, North Wales, PA 19454; David A. Zopf of 560 Beechtree Lane, Wayne, PA 19084, and Caryn Bowe of 276 Cherry Lane, Doylestown, PA, 18901, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified patent application:

Title of Invention: ACTIVATED FORMS OF WATER-SOLUBLE POLYMERS

Filing Date: September 19, 2005

Application No.: 10/549,520; and

WHEREAS, Neose Technologies, Inc., located at 102 Witmer Road, Horsham, PA 19044, hereinafter referred to as "ASSIGNEE," hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

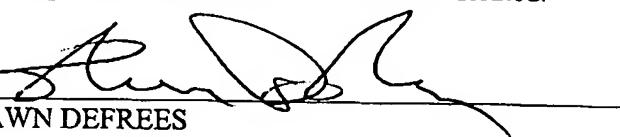
For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that Assignors will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Morgan, Lewis & Bockius LLP, One Market, Spear Street Tower, San Francisco, CA 94105, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed his/her names on the dates indicated.

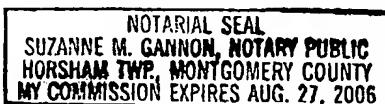
Dated: 5/11/06


SHAWN DEFREES

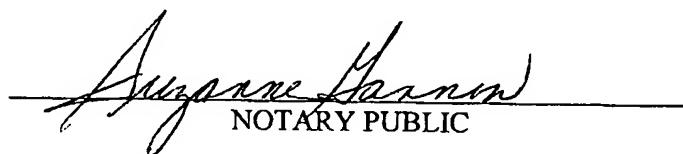
STATE OF PENNSYLVANIA)
)
) ss.
COUNTY OF MONTGOMERY)

On 5/11/06, before me, Suzanne Gannon personally appeared Shawn DeFrees, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



My Commission Expires: _____


Suzanne Gannon
NOTARY PUBLIC

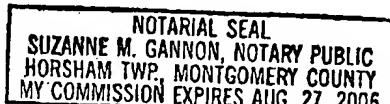
Dated: 5/11/2006


DAVID A. ZOPF

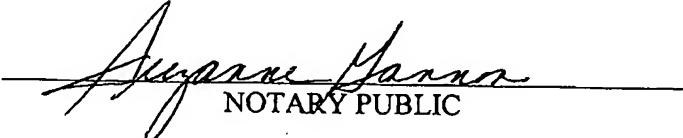
STATE OF PENNSYLVANIA)
)
COUNTY OF Montgomery) ss.

On 5/11/06, before me, Suzanne Gannon personally appeared David A. Zopf, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



My Commission Expires: _____


Suzanne Gannon
NOTARY PUBLIC

Assignment

Attorney Docket No.: 040853-01-5127-US

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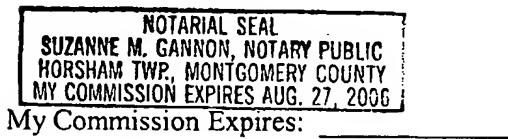
Dated: 5/11/2006

Caryn Bowe
CARYN BOWE

STATE OF PENNSYLVANIA)
COUNTY OF Montgomery) ss.

On 5/11/06, before me, Suzanne Gannon personally appeared Caryn Bowe, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Suzanne Gannon
NOTARY PUBLIC